

ADIABATIC EVAPORATIVE COOLING



ColdAIR

THE INNOVATIVE EVAPORATIVE COOLING SYSTEM FOR INDUSTRIAL, COMMERCIAL, SPORTS AND AGRICULTURAL BUILDINGS THAT LOWERS COOLING COSTS AND IMPROVES THE AIR QUALITY



HEALTH



GREEN



ERP CONFORMITY



PATENTED



MADE IN ITALY



HIGH
PERFORMANCE



ADVANTAGES

Air pollution reduction

Air cooling and purification

Low running, installation and maintenance costs

Large air changes

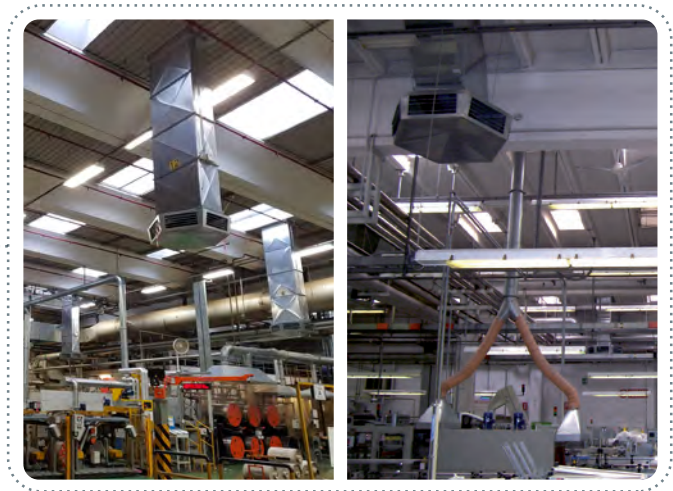
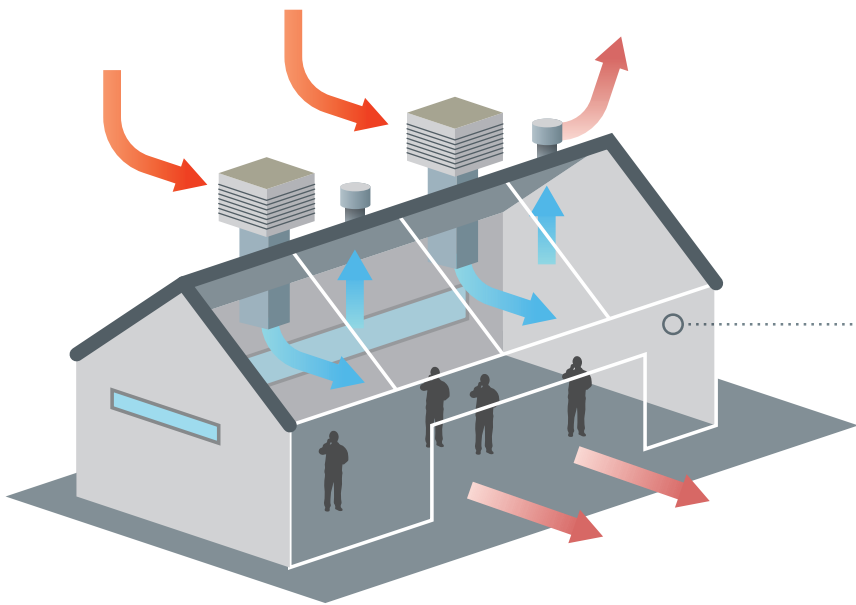
Zone management cooling

No refrigerant gases, no pollution impact

Improvement of environment hygiene

Low energy consumption

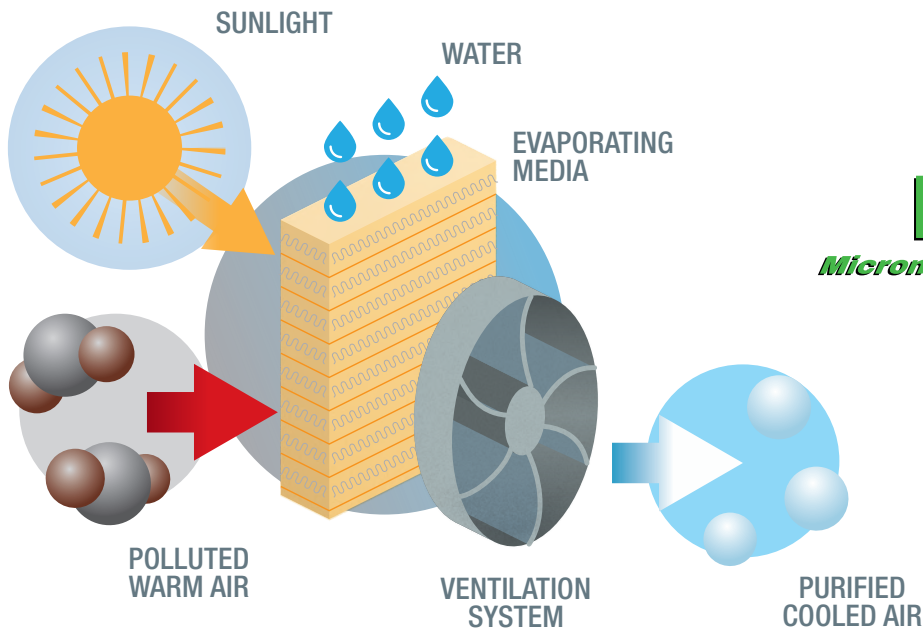
Automatic ventilation and free cooling



EVAPORATIVE COOLING

Differing from a traditional air conditioning system, Cold AIR operates with "open doors" by inputting in the building new air and creating continuous air changes, in this way the building receives new oxygenated air and expels the exhausted air. The new air is cooled by an evaporative cooling system that does not use compressors nor refrigerant gases, it cools it through the water evaporation process that reduces the sensible heat of the air.

This allows to cool large volumes of air with very low energy consumption and a zero environment impact.



Health[®]
Micrometrics Technology Power

HEALTH SERIES INNOVATION

POLLUTING ELEMENTS REDUCTION

After having cooled the external warm air, COLD AIR Health series before inputting it into the building, purifies it thanks to a patented system designed by Impresind. The purification takes place inside the evaporating media through the photocatalysis of titanium dioxide which, exposed to sunlight, produces a high oxidizing effect on organic and inorganic substances.

Therefore, it reduces the harmful presence in the air of nitrogen dioxide, sulfur dioxide, carbon monoxide, benzene, ammonia, formaldehyde, atmospheric particles PM10 and organic molecules (reduction of bacterial load).

Test results performed at the University of Turin by the Department of Chemistry, indicate for example a reduction of NO of 60% and NOx of 37%.

TECHNICAL FEATURES

External casing made of ABS with anti UV treatment

Celdek filter pads, 100mm thickness with anti bacterial treatment

88% saturation efficiency

Filters wetting system with multi wash system

Automatic cleaning cycle and draining

Multi function electronic controller and BMS system ready

Programmable thermostat

Programmable humidistat

SUITABLE FOR



MANUFACTURING



RETAIL



SPORT FACILITY



FOUNDRIES



GREENHOUSES



ANIMAL HUSBANDRY

COLD AIR EVAPORATIVE COOLER SERIES

Model	Air circulation m ³ /h*	Cooling capacity kW	Airflow m ³ /h*	Electric Power W	V/Hz	Dim. LxWxH mm	Weight e/f Kg
FPA 109	14.000	24	10.000	900	230/50/60	1300x670x1300	60/75
FPA 159	18.200	32	13.000	1.200	230/50/60	1300x670x1300	63/78
TC 109**	14.000	24	10.000	2.000	400/50/60	1150x1150x1050	90/110
TA 159	18.200	32	13.000	1.200	230/50/60	1150x1150x1050	67/88
TA 209	28.000	49	20.000	1.800	230/50/60	1610x1150x1050	120/146
TA 209-2SD	28.000	49	20.000	1.800	230/50/60	1610x1150x1335	150/180
TC 209**	28.000	49	20.000	3.200	400/50/60	1610x1150x1050	160/186
TA309	37.800	66	27.000	2.500	230/50/60	1610x1150x1335	135/163

*Extra UE design parameters

**Centrifugal fan units

RESULTING AIR TEMPERATURE BASED ON EXTERNAL AIR CONDITION COMBINATIONS

R.H. Ext	30%	40%	50%	60%	70%
°C Ext.	°C Int.	°C Int.	°C Int.	°C Int.	°C Int.
30°C	19,0°C	21,0°C	23,0°C	24,5°C	26,0°C
35°C	22,5°C	25,0°C	27,5°C	29,5°C	31,0°C
40°C	26,0°C	29,0°C	31,5°C	33,5°C	36,5°C

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IMPRESIND IS ALSO HEATING AND VENTILATION SOLUTIONS



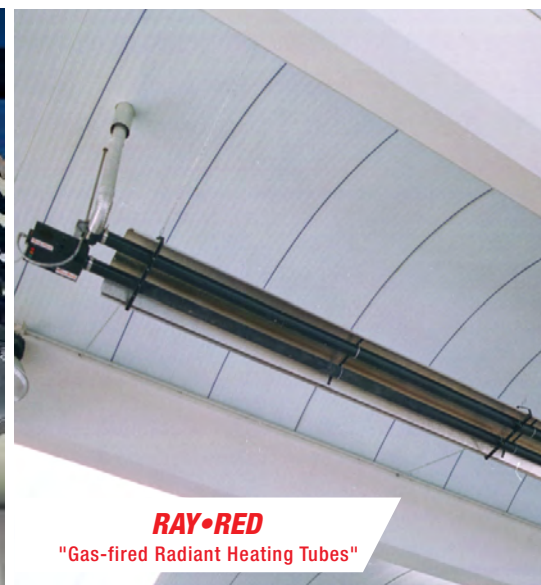
TUB ONE

"Gas-fired Radiant Heating Strips"



ELITURBO

"Air mixer - destratification fans"



RAY-RED

"Gas-fired Radiant Heating Tubes"



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